

## REMARKS

In the Office Action, the Examiner stated that claims 21-22 and 25-31 were withdrawn from consideration as being drawn to a nonelected species. In view of the Examiner's earlier restriction requirement, Applicant reserves all right to present said claims in a divisional application.

In the Office Action, the Examiner rejected claims 2-15 under 35 U.S.C. § 112, Paragraph 2 as being indefinite, stating that in claim 2, it is unclear how and when the pilot channel is considered as AC coupled, and in claim 3, it is unclear how and when the data channel is considered as DC coupled. In order to clarify the subject matter being claimed, claims 2-3 have been amended. Accordingly, it is respectfully submitted that the rejection should be withdrawn.

In the Office Action, the Examiner also rejected claims 1-2 and 23 under 35 U.S.C. § 102(b) as being anticipated by Petersdorf. Claims 1-2 have been amended, and claim 23 has been canceled without prejudice to pursue said claim in a continuing application. Claim 1 as amended includes a means for calibration operatively coupled to the second Hall effect element. Accordingly, it is respectfully submitted that the rejection should be withdrawn.

In the Office Action, the Examiner stated that claims 16-19 and 32-36 are allowable. Applicant respectfully submits that claim 20, which depends from claim 17, is also allowable.

The Examiner stated that claim 24 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 24 has been

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amended to include the limitations of the base claim (23), and accordingly, it is respectfully submitted that claim 24 is allowable.

In view of the foregoing, Applicant respectfully submits that all pending claims are in condition for allowance. A Notice of Allowance is respectfully requested at the earliest possible date.

Please note that the address for correspondence in this matter has changed. Please direct all future correspondence to Customer No. 29855. In addition, please reference new attorney docket number 330-0003US in all future correspondence.

Respectfully submitted,



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